•Skills Matrix

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Skills Matrix 2007

EHP Issue 2007	Lesson Title	Classification	Communication			Comprehension		Computation	Critical Thinking and Response	Experimentation			Graphing	Graph Reading	Manipulation	Observation	Reading Maps and Legends	Research	Tables and Figures		Technological Design	Unit Conversion
			Note-taking	Oral	Written (Including Summarization)	Listening	Reading			Conduct	Data Analysis	Design							Creating	Reading		
January	Caring for Children Amidst Chaos	X	X	X	X	X	X		X									X		X		
	Chlorine, Asthma, and Blackworms?		X	X	X	X	X		X									X				
	A Yen for Maximum Residue Limits in Food	X	X	X	X	X	X	X	X								X			X		
February	Impaired Fecundity: Examining Data for Trends	X	X	X	X	X	X	X	X				X	X						X		
	Calculating Your Odds for Disease		X	X	X	X	X	X	X									X	X	X		
	Letter to the Editor	X	X	X	X	X	X		X													
	Skills Addressed by All Lessons	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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			Note-taking	Oral	Written (Including Summarization)	Listening	Reading			Conduct	Data Analysis	Design							Creating	Reading		
March	What are Biomarkers?	X	X	X	X	X	X		X												X	
	Picking Up on Preservatives	X	X	X	X	X	X		X											X		
April	Weighing the Effects of Lead		X	X	X	X	X		X													
	Carbon and Mercury Cycles	X	X	X	X	X	X		X							X						
	Converting Water into Food	X	X	X	X	X	X	X	X						X							X
	Skills Addressed by All Lessons	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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			Note-taking	Oral	Written (Including Summarization)	Listening	Reading			Conduct	Data Analysis	Design							Creating	Reading		
May	Diesel Fuels Duke It Out		X	X	X	X	X	X	X									X	X	X		
	Chloramines and Elevated Blood Lead: Is the Effect Real?				X		X		X					X								
	Mapping in the Time of Cholera				X	X	X		X		X		X	X			X		X	X	X	
June	Take Action on Passive Smoking	X	X		X		X		X									X				
	Air Pollution Testing: New and Improved!		X		X		X		X												X	
	Controlling Pollutants: A Look at California's Model			X	X	X	X		X													
	Skills Addressed by All Lessons	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

National Science Education Content Standards Matrix (January–March 2007)

			JANUARY			FEBRUARY			MARCH	
		Standards Addressed By All Lessons	Caring for Children Amidst Chaos	Chlorine, Asthma, and Blackworms?	A Yen for Maximum Residue Limits in Food	Impaired Fecundity: Examining Data for Trends	Calculating Your Odds for Disease	Letter to the Editor	What are Biomarkers?	Picking Up on Preservatives
Unifying Concepts and Processes	Systems, order, and organization	X	X	X	X		X	X	X	X
	Evidence, models, and explanation	X	X	X	X	X	X	X	X	X
	Change, constancy, and measurement	X	X	X	X	X	X	X	X	X
	Evolution and equilibrium	X	X							X
	Form and function	X	X	X			X			X
Science as Inquiry	Abilities necessary to do scientific inquiry	X	X	X	X	X	X	X		
	Understanding about scientific inquiry	X		X		X	X	X	X	X
Life Science	The cell	X					X		X	X
	Molecular basis of heredity	X					X		X	X
	Biological evolution	X								
	Interdependence of organisms	X	X				X			
	Matter, energy, and organization in living systems	X							X	X
	Behavior of organisms	X					X		X	
Earth and Space Science	Energy in the earth system	X								
	Geochemical cycles	X								
	Origin and evolution of the earth system	X								
	Origin and evolution of the universe	X								

National Science Education Content Standards Matrix (January–March 2007)

			JANUARY			FEBRUARY			MARCH	
		Standards Addressed By All Lessons	Caring for Children Amidst Chaos	Chlorine, Asthma, and Blackworms?	A Yen for Maximum Residue Limits in Food	Impaired Fecundity: Examining Data for Trends	Calculating Your Odds for Disease	Letter to the Editor	What are Biomarkers?	Picking Up on Preservatives
Physical Science	Structure of atoms	X								
	Structure and properties of matter	X		X			X			
	Chemical reactions	X		X			X		X	X
	Motions and forces	X								
	Conservation of energy and increase in disorder	X								
	Interactions of energy and matter	X								
Science and Technology	Abilities of technological design	X		X					X	X
	Understanding about science and technology	X		X					X	X
Science in Personal and Social Perspectives	Personal and community health	X	X	X	X	X	X	X	X	X
	Population growth	X				X				
	Natural resources	X						X		
	Environmental quality	X	X	X	X	X	X	X	X	X
	Natural and human-induced hazards	X	X	X	X	X	X	X	X	X
	Science and technology in local, national, and global challenges	X	X		X		X	X	X	X
History and Nature of Science	Science as a human endeavor	X		X			X		X	X
	Nature of scientific knowledge	X		X			X	X	X	X
	Historical perspectives	X					X	X	X	X

National Science Education Content Standards Matrix
(April–June 2007)

			APRIL			MAY			JUNE		
		Standards Addressed By All Lessons	Weighing the Effects of Lead	Carbon and Mercury Cycles	Converting Water into Food	Diesel Fuels Duke It Out	Chloramines and Elevated Blood Lead: Is the Effect Real?	Mapping in the Time of Cholera	Take Action on Passive Smoking	Air Pollution Testing: New and Improved!	Controlling Pollutants: A Look at California's Model
Unifying Concepts and Processes	Systems, order, and organization	X	X	X	X	X		X	X	X	X
	Evidence, models, and explanation	X	X	X	X	X	X	X	X	X	X
	Change, constancy, and measurement	X	X	X	X	X	X	X	X	X	X
	Evolution and equilibrium	X			X	X					
	Form and function	X	X		X	X					
Science as Inquiry	Abilities necessary to do scientific inquiry	X	X	X	X	X	X	X	X		X
	Understanding about scientific inquiry	X	X	X	X	X	X	X	X	X	X
Life Science	The cell	X								X	
	Molecular basis of heredity	X									
	Biological evolution	X									
	Interdependence of organisms	X		X	X	X		X			
	Matter, energy, and organization in living systems	X		X	X	X					
	Behavior of organisms	X			X			X		X	
Earth and Space Science	Energy in the earth system	X									X
	Geochemical cycles	X		X							X
	Origin and evolution of the earth system	X									
	Origin and evolution of the universe	X									

National Science Education Content Standards Matrix (April–June 2007)

		Standards Addressed By All Lessons	APRIL			MAY			JUNE		
			CWeighing the Effects of Lead	Carbon and Mercury Cycles	Converting Water into Food	Diesel Fuels Duke It Out	Chloramines and Elevated Blood Lead: Is the Effect Real?	Mapping in the Time of Cholera	Take Action on Passive Smoking	Air Pollution Testing: New and Improved!	Controlling Pollutants: A Look at California's Model
Physical Science	Structure of atoms	X									
	Structure and properties of matter	X		X							X
	Chemical reactions	X		X			X				
	Motions and forces	X									
	Conservation of energy and increase in disorder	X									
	Interactions of energy and matter	X									
Science and Technology	Abilities of technological design	X		X		X	X			X	
	Understanding about science and technology	X	X	X		X	X	X		X	X
Science in Personal and Social Perspectives	Personal and community health	X	X			X	X	X	X	X	
	Population growth	X									
	Natural resources	X	X	X	X	X				X	
	Environmental quality	X	X	X		X	X	X	X	X	X
	Natural and human-induced hazards	X	X	X		X	X	X	X	X	X
	Science and technology in local, national, and global challenges	X	X			X	X	X	X	X	
History and Nature of Science	Science as a human endeavor	X				X			X	X	X
	Nature of scientific knowledge	X				X			X	X	X
	Historical perspectives	X				X					